

10/518137

DT12 PCT/PTO 15 DEC 2004

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Attorney Docket No. 04791/LH

Express Mail Mailing Label
No.: EV 602 255 897 US

**IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE**

Date of Deposit: December 15, 2004

Applicant(s): M. TAKASHIMA et al

Serial No. : Based on
PCT/JP2003/014689

Filed : Herewith

For : SYNCHRONOUS RECTIFYING
SWITCHING POWER SUPPLY
DEVICE

Art Unit :
Examiner :

CUSTOMER NO.: 01933

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Barbara Villani

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450,
Alexandria, VA 22313-1450

S I R :

Submitted herewith are copies of the publications identified
on the attached Patent Office form PTO/SB/08A. Also enclosed is
an International Search Report.

Japanese No. 2000-116122 is identified on pages 1-2 of the
specification.

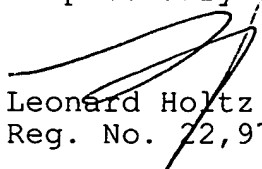
It is respectfully requested that the publications submitted
herewith be considered and made of record.

COMMENTS

Japanese No. 2001-292569 - The switching power supply device
of this invention can surely turn off a synchronous rectifying
element before a main switch is turned on even when the on-time
of the main switch element is lengthened due to sudden variation
of a load. On the other hand, the gate pulse width of the MOSFET

of the cited switching convertor is caused to follow the change in the load.

Respectfully submitted,



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PTO/SB/08A (08-00)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for Form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number		
				Filing Date		Herewith
				First Named Inventor		TAKASHIMA et al
				Group Art Unit		
				Examiner Name		
Sheet	1	of	1	Attorney Docket Number		04791/LH

U.S. PATENT DOCUMENTS

Exam. Initials	Cite No ¹	Document Number	Kind Code ²	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion

FOREIGN PATENT DOCUMENTS

Exam Initials	Cite No ¹	Offc ³	Document Number ⁴	Kind Code ⁵	Name of Patentee or Applicant	Publication Date MM-DD-YYYY	Relevant Portion	T ⁶
		JP	2001-292569	A	OTA	10-19-2001		X*
		JP	5-199744	A	YAMADA	08-06-1993		X*
		JP	2002-084755	A	HAMADA ET AL	03-22-2002		X*
		JP	6-319257	A	ISHII	11-15-1994		X*
		JP	2002-199713	A	KOBAYASHI ET AL	07-12-2002		X*
		JP	2000-116122	A		04-21-2000		
			*includes English abstracts.					

Examiner Signature		Date Considered	
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Place a check here if English translation is attached.

DATE MAILED: December 15, 2004